

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P829928

Luminaire Tested: **OHBL-18HE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-NL-UNV-L835-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

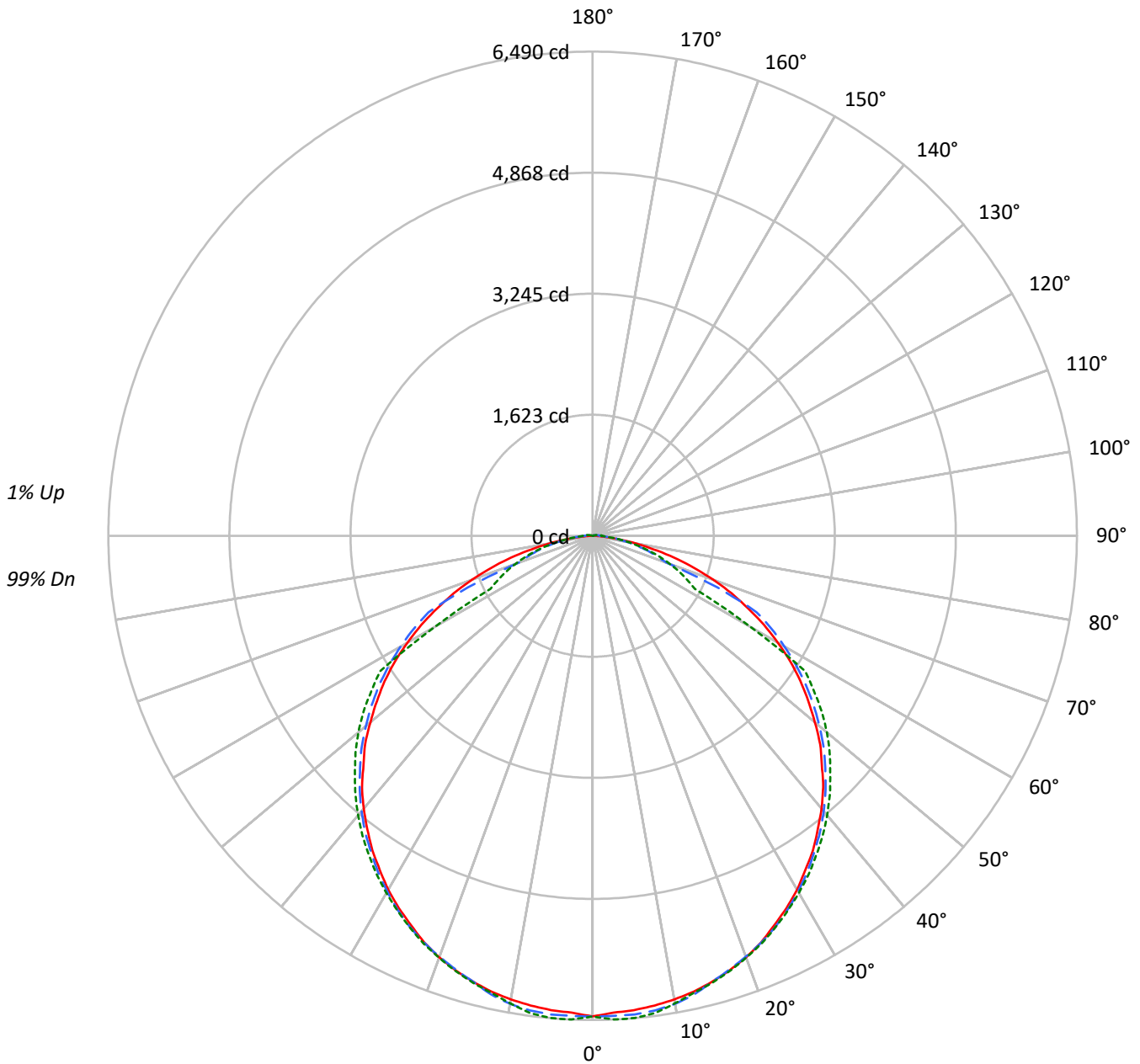
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18088.0 lumens
Efficiency: N/A
Efficacy: 175.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11004	11004	11004
5°	10943	11042	11125
10°	10946	11050	11036
15°	10944	10942	10966
20°	10929	10913	10939
25°	10854	10910	10918
30°	10804	10860	10902
35°	10734	10793	10894
40°	10642	10742	10901
45°	10488	10646	10879
50°	10330	10540	10889
55°	10132	10395	10769
60°	9793	10140	8383
65°	9265	9804	5642
70°	8569	5205	5476
75°	7475	4946	5229
80°	5748	4537	4792
85°	2900	4586	4695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.1	3.4
10°-20°	1752.5	9.7
20°-30°	2666.6	14.7
30°-40°	3242.2	17.9
40°-50°	3409.0	18.8
50°-60°	3112.8	17.2
60°-70°	1995.5	11.0
70°-80°	942.6	5.2
80°-90°	261.4	1.4
90°-100°	69.2	0.4
100°-110°	19.0	0.1
110°-120°	5.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5031.1	27.8
0°-40°	8273.3	45.7
0°-60°	14795.1	81.8
0°-90°	17994.6	99.5
90°-120°	93.4	0.5
90°-150°	93.4	0.5
90°-180°	93.0	0.5
0°-180°	18088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6442	6442	6442	6442	6442	
5°	6382	6407	6440	6475	6489	607
15°	6189	6236	6188	6197	6202	1747
25°	5760	5769	5789	5798	5794	2658
35°	5148	5118	5176	5240	5225	3217
45°	4342	4334	4408	4512	4504	3356
55°	3403	3377	3491	3607	3616	3035
65°	2293	2293	2426	1392	1396	2273
75°	1133	1154	750	789	792	1194
85°	148	188	234	253	240	219
90°	0	63	104	123	121	6
95°	3	33	75	101	101	2
105°	6	12	18	18	17	6
115°	6	8	11	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829928

CATALOG NUMBER: OHBL-18HE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6442.5	6442.5	6442.5	6442.5	6442.5
2.5°	6397.2	6418.8	6442.5	6473.0	6489.9
5°	6382.5	6407.4	6440.2	6475.3	6488.8
7.5°	6350.9	6385.9	6417.6	6442.5	6450.4
10°	6311.3	6353.2	6371.3	6369.0	6363.4
12.5°	6258.2	6302.3	6296.7	6270.6	6275.2
15°	6189.2	6235.5	6188.2	6197.1	6201.7
17.5°	6107.8	6153.1	6097.7	6115.7	6116.9
20°	6012.9	6046.8	6003.8	6018.6	6018.6
22.5°	5898.8	5922.5	5904.4	5914.6	5916.8
25°	5759.7	5768.7	5789.0	5798.1	5793.6
27.5°	5626.4	5615.0	5654.6	5676.0	5664.7
30°	5478.2	5460.1	5506.4	5541.5	5528.0
32.5°	5308.6	5297.3	5350.5	5392.3	5384.4
35°	5148.1	5117.6	5176.3	5239.7	5224.9
37.5°	4958.2	4940.1	5006.7	5073.5	5065.6
40°	4772.8	4742.2	4818.0	4897.1	4889.2
42.5°	4573.9	4537.6	4620.2	4715.2	4706.1
45°	4342.0	4334.1	4407.6	4511.6	4503.7
47.5°	4136.4	4096.8	4199.6	4300.3	4309.3
50°	3887.6	3873.0	3966.8	4088.9	4097.9
52.5°	3644.6	3634.4	3732.7	3856.0	3871.8
55°	3402.6	3376.6	3490.8	3607.3	3616.4
57.5°	3143.9	3116.7	3233.1	3359.8	3378.9
60°	2866.8	2840.8	2968.5	3086.2	2454.2
62.5°	2589.8	2571.8	2705.2	1916.1	1544.3
65°	2292.6	2292.6	2425.9	1391.6	1396.1
67.5°	2014.5	1996.5	1808.8	1250.2	1250.2
70°	1716.0	1722.9	1042.2	1095.5	1096.5
72.5°	1416.5	1441.4	899.9	942.8	945.0
75°	1132.7	1154.2	749.5	789.1	792.4
77.5°	832.0	639.8	602.5	633.1	634.2
80°	584.4	403.6	461.3	490.6	487.2
82.5°	341.3	282.6	338.0	359.5	358.3
85°	148.0	187.7	234.0	253.3	239.6
87.5°	47.4	116.5	145.8	157.1	155.9
90°	0.0	63.3	104.0	123.2	121.0
92.5°	0.0	49.7	90.5	113.1	114.2
95°	3.4	32.8	74.7	100.7	100.7
97.5°	2.3	23.7	53.1	79.1	81.4
100°	2.3	19.1	35.1	56.5	57.7
102.5°	5.6	15.8	21.4	36.1	37.3
105°	5.6	12.4	18.1	18.1	17.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	9.1	12.4	9.1	1.1
115°	5.6	7.9	11.3	7.9	1.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	5.6	11.3	15.8	10.2	3.4
110°	6.8	10.2	13.5	9.1	1.1



(END OF REPORT)